

IN THE SPECIFICATION:

Please substitute the following paragraph for the paragraph starting at page 2, line 21 and ending at page 3, line 7.

In addition, there is a further apparatus. The apparatus irradiates a primary phosphor with X-rays, and accelerates and focuses photoelectrons emitted from the fluorescent screen of the primary phosphor with an electron lens onto a secondary fluorescent scree. Then, the apparatus converts ~~an~~ a fluorescent image (an X-ray image) on the secondary fluorescent screen into electric signals with an image pickup tube or charge coupled elements (CCD's). The apparatus is called ~~as~~ an image intensifier (I.I.), and is generally used for fluorography. Also by this apparatus, electric signals can be detected as digital values, and the system adopted by this apparatus is one of the digital radiographing systems.

Please substitute the following paragraph for the paragraph starting at page 3, line 8 and ending at line 21.

As described above, a variety of apparatus for digitalizing X-ray images exist. The demands for digitalization at medical scenes have recently been increasing more and more. The ~~digitization~~ digitalization of image data could bring about the advantage of the easiness of the recording, the displaying, the printing and the holding of radiographed data. Moreover, the image processing of radiographed data using a computer enables a doctor to be aided at the time of a diagnosis by the interpretation of a radiogram. Moreover, it is said that an automatic

diagnosis only by a computer without any doctors for the interpretation of a radiogram will be able to be realized in the near future.

Please substitute the following paragraph for the paragraph starting at page 8, line 9 and ending at line 20.

According to the present invention, radiography is performed while alternatively irradiating radiations having energy different from each other at the time of producing the $(2m - 1)$ th odd image and at the time of producing the $2m$ th even image, and the subtraction process between the odd image and the even image is performed to display the processed image obtained by the subtraction process on the display device. Consequently, the display of the parts where the degrees of changes are larger can be enhanced to be blacker or whiter against that of the parts where the degrees of changes are not so ~~large~~ large.

Please substitute the following paragraph for the paragraph starting at page 11, line 6 and ending at line 13.

An image processor 505 is the so-called computer provided with the function of recording X-ray image information, which is converted into electric signals, the function of operating obtained image data, the function of generating control signals for operating the X-ray detector, the function of controlling the X-ray generation device, and the function of making a cathode ray tube (CRT) display 506 display images.